ANNOUNCEMENT CUM INFORMATION BROCHURE

ICAR Winter School on Climate Smart Agricultural Machinery for Conservation Agriculture
06 – 26 November, 2017

Sponsored by
Education Division
Indian Council of Agricultural Research CAB-II,
New Delhi-110 012

Course Director
Dr K. P. Singh

Course Coordinators
Dr. Manoj Kumar
Er. H. S. Pandey

Organized by
ICAR- Central Institute of Agricultural Engineering, Nabi bagh, Bhopal-462038 (M.P.)

APPLICATION FORM
ICAR Winter School on Climate Smart Agricultural Machinery for Conservation Agriculture

06 – 26 November, 2017
Institute __________________ at ____________

1. Full name (in block letters): ____________________________
2. Designation: _______________________________________
3. Present employer and address: __________________________
4. Address for correspondence: _________________________
   E-mail: ____________________, Tel. / Mobile No. ____________
5. Permanent address: __________________________________
6. Date of birth: ____________________________
7. Sex: Male/Female: ____________________________
8. Marital status: Married/unmarried _____________________
9. (a) Teaching/research/professional experience
   (Mention posts held in last 5 years):
   S. No. Post held Period with dates

(b) Present area of research and number of publications:
10. Mention if you have participated in any Summer/Winter School/Short Course etc. during previous years
    under ICAR/any other organization (Give details of course, organizers, duration/dates/year etc.):
11. Registration fee of Rs. 50/- (DD/Postal Order No. ____________ dated ____________, (in favour of ICAR Unit-CIAE, Bhopal) (Non-refundable)
12. Academic record (Degree onwards):

<table>
<thead>
<tr>
<th>Exam passed</th>
<th>Subjects</th>
<th>Year</th>
<th>Division</th>
<th>University</th>
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<tbody>
<tr>
<td>Bachelor</td>
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<td>Master</td>
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<td>Other</td>
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13. Relevance of training to applicant’s present academic and research activities:
14. Signature of applicant (indicate name of place and date):
15. Recommendation of the forwarding Institute
   (Signature with date, designation/address):

CERTIFICATE
It is certified that the above information was furnished as per the office record and was found correct.

(Signature and Designation of the sponsoring authority)

Contact Address

Course Director:
Dr. K P. Singh, Senior Scientist,
Telephone No.: 0755-2521087, 9425017398 (Mobile)
Email: kp.kp24@gmail.com

Course Coordinators:
Dr. Manoj Kumar, Scientist,
Telephone No.: 0755-2521218, 9589110251 (Mobile)
Email: dreamweaver.manoj@gmail.com
Er. H. S. Pandey, Scientist,
Telephone No.: 0755-2521085, 9589110029 (Mobile)
Email: pandeyhs13@gmail.com

ICAR- Central Institute of Agricultural Engineering,
Nabi bagh, Bhopal-462038 (M.P.)

Dr. K. K. Singh
Director
ICAR-Central Institute of Agricultural Engineering
Nabibagh, Berasia Road Bhopal - 462 038 (M.P.), India
Ph. No. 0755-2521000 Fax. No. 0755-2734016
E-mail: directorciae@gmail.com
Website: www.ciae.nic.in

Important Date

<table>
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<tr>
<th>Last date receipt of application</th>
<th>September 26, 2017</th>
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<tbody>
<tr>
<td>Intimation of selection</td>
<td>September 30, 2017</td>
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<tr>
<td>Confirmation of participation by candidates</td>
<td>October 06, 2017</td>
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NOTE: Once selected, candidates will be intimated through email to which they should immediately reply with firm acceptance and travel plans.
The mission of increasing food grains production, though somehow realized at present, is further under risk due to climatic aberrations and reduced availability of land and other resources to cope up demands of increasing population. As the natural resources like soil, water and externally applied production inputs are going to be reduced per capita and also the reduction in partial factor productivity, there is need for paradigm shift in production philosophy and package of practices. Conservation agriculture (CA) which aims at sustaining the resource base and also improving their efficiency under a demand of sustainable production system is of great importance in integrating broader aspects of soil-biota-interaction with climate. The basic objective of the course is to acquaint the participants with the latest issues and recent innovations of climate smart agricultural machinery for conservation agriculture and its effect on mitigation and adaptation of climate change. This course would offer the theory and practical oriented understanding of the climate smart agricultural technologies/ machineries for improving production and reducing the adverse effect of climate change. This will help the participants to understand management strategies better for their future planning of research, teaching and extension under conservation and climate smart agriculture.

**Location and Climate**

The ICAR-Central Institute of Agricultural Engineering campus is located at Nabibagh, Berasia Road 7 km from Bhopal railway station and 6 km from airport. During November month, the climate would be moderate cold and pleasant.

**Course content**

The major course contents to be covered in the training programme are:

- Climate Smart Agricultural Machinery
- Conservation agriculture and residue management
- Remote sensing - concepts and application in conservation farming
- Effect of elevated CO2 and temperature on productivity of major cropping systems of central India
- Sensors and instrumentation for measurement of performance parameters of equipment
- Techniques for management of soil fertility quality for conservation agriculture
- Decision support and expert system to analyze data and make decision for conservation farming
- Ergonomics and safety in CA Machinery
- Biomass management for efficient utilization of surplus crop residue
- Field demonstration of seeding/planting machines

**Eligibility**

This Winter School is meant for active researchers’/teachers/ scientists in ICAR Institutes/ SAUs/ Agricultural colleges in the rank of Scientists/ Asst. Prof. or above in the field of Agricultural Sciences / Agricultural Engineering or any other related disciplines. A maximum of 25 participants will be selected for the course by the screening committee as per the ICAR guidelines. The decision of the selection committee will be final and no correspondence in this regard will be entertained for non-selected candidates.

**How to apply**

As per ICAR instructions, the interested candidates should apply online by registering at CBP portal (http://cbp.icar.gov.in) through “Capacity Building Programme” latest by 06.09.2017. Printout of online submitted form duly signed and recommended by the competent authority of SAU/ICAR Institute should be sent to the Course Director of Summer School through proper channel along with non-refundable registration fee of Rs. 50/- in form of DD/Postal Order drawn in favour of ICAR Unit-CIAE, Bhopal. Applicants may send an advance copy in anticipation of delay in forwarding through proper channel. The list of selected candidates will be displayed in ICAR-CIAE website (www.ciae.nic.in) and will also be conveyed to the applicants only through e-mail. Only 25 participants shall be selected for the course. In case any query please contact Course Director or Course Coordinators.

**Travel, Boarding and Lodging**

Participants will be paid travel (to and fro) fare by rail (Restricted to AC-II tier) or by bus as per their entitlement. Actual TA for the shortest route will be paid on production of the tickets. Participants are requested not to bring their spouse or any family members as there is no scope for their accommodation. If you still want to bring them then you yourself need to arrange their accommodation outside ICAR-CIAE campus at your own cost and also requested to make his/her own arrangement of transport to reach at ICAR-CIAE. Free shared accommodation in the Trainee Hostel of the Institute and free boarding (food) will be provided to the selected candidates during the training programme. The local candidates are not eligible for boarding and lodging, however, they will be provided local hospitality (lunch, tea, snacks etc.).

Detailed information is also available at: http://cbp.icar.gov.in